**Little Dreamers**

Software Requirements Specification - SRS

Version **1.0**

3-12-2023

# Revision History

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| --- | --- | --- | --- |
| **Date** | **Description** | **Author** | **Comments** |
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# Document Approval

The following Software Requirements Specification has been accepted and approved by the following:

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| --- | --- | --- | --- |
| **Signature** | **Printed Name** | **Title** | **Date** |
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# Introduction

This document introduces full software requirements and specifications for “LD –Little Dreamers” A Child's Toys Online Store with Personalized Recommendations Tailored to Your Child's Developmental Journey. We will talk about the system's origin idea and the problems that could be solved by applying this system. We will lead you also to all wanted designing and developing details passing through important modeling diagrams.

## Purpose

*The purpose of this document is to describe the real goals of using this new system and how to achieve it.*

## Scope

*Our software system name is “*LD –Little Dreamers”*.*

*This project aims to address the challenge of toy selection by providing a personalized recommendation system that takes into account each child's unique developmental needs and preferences.*

*The web application will serve as an online toy store with an integrated recommendation engine that analyzes user inputs regarding their child's developmental goals and recommends toys accordingly.*

***Software Main Features (Subsystems):***

* *This software enables the User (parent) to register or log in to an account.*
* *Show the products’ (toys’) main page.*
* *The ability to search or filter based on age, price, category, company, developmental needs, and events.*
* *Show the product’s (toy’s) detailed information.*
* *A shopping cart to add toys to it and manage them.*
* *The ability of the physical toy store owner to add, edit, show, and delete toys from the website.*
* *An email system that notifies the store owner about toy sales statistics.*
* *The ability for the User (parent) to rate and comment on toys.*
* *Frequently asked questions (FAQ) for users.*
* *Show product’s policies.*
* *The ability for the user to add and view pages for his children to the sidebar in addition to answering a form for each child to recommend personalized toys.*

## Overview

*This SRS document contains all conceptual and design information.*

# General Description:

*In this section, we will describe the general factors that affect the product and its requirements.*



## User Characteristics

LD –Little Dreamers’ main target users are:  
Toys’ store owners and Parents and their children.

## General Constraints

*There is a data constraint all data used in this project is fictional.*

*There is no payment gateway to this project.*

## Assumptions and Dependencies

The LD –Little Dreamers project will be developed on the web.

## Development Organization Requirements

You will find some of these requirements in the use case diagram.



# Specific Requirements



## External Interface Requirements

### 3.1.1 User Interfaces

The user will interact with web interfaces such as forms.

### 3.1.2 Hardware Interfaces

Any type of computer or mobile device.

## Functional Requirements

This section describes specific features of the software project. If desired, some requirements may be specified in the use-case format and listed in the Use Cases Section.

### 3.2.1 <Functional Requirements>

* R*egister or log in to an account.*
* *Browse, Search, or filter products based on age, price, category, company, developmental needs, and events.*
* *View the product’s (toy’s) detailed information.*
* *Add, show, edit, or delete toys from the shopping cart.*
* *(Store owner) Add, edit, show, and delete toys from the website.*
* *(Store owner) An email system that notifies about toy sales statistics.*
* R*ate and comment on toys.*
* *View frequently asked questions (FAQ).*
* *View product’s policies.*
* *Add and view pages for his children to the sidebar in addition to answering a form for each child to recommend personalized toys.*

## Non-Functional Requirements

Non-functional requirements may exist for the following attributes mentioned in the next paragraphs. Often these requirements must be achieved at a system-wide level rather than at a unit level.

### 3.3.1 Performance

### 3.3.2 Reliability

### 3.3.3 Availability

### 3.3.4 Security

### 3.3.5 Maintainability

### 3.3.6 Portability

# Analysis Models

## Use Cases Diagram

## Use Cases



### Use Case #1

**Use case description:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Name** |  |  |  |
| Employees’ info |  |  |  |
|  |  |  |  |
| **Version** | **Description** | **Changed By** | **Date** |
| 1.0 | First draft | XX | 30-11-2023 |

|  |  |
| --- | --- |
| **Brief Description:** | *Add, edit, show, and delete employees’ information related to courses and courses.* |
| **Business Trigger:** | The need to train the employees |
| **Preconditions:** | The user has access to the system with employee names showing |

|  |  |  |  |
| --- | --- | --- | --- |
| **Basic Flow:**   1. **The Admin will click on an employee to input his course-related info and sign him up for courses.** 2. **The system will register the employee in the course** 3. **The system will provide a modal to show the employees info about courses.** 4. **The system will provide modals for editing or deleting the user’s course-related info** | | | |
| **Assumptions: employees’ attributes will be provided by the CEP database** | | | |
| **Line** | **System Actor Action** | | **System Response** |
|  | Request the system URL | |  |
|  |  | | Opens all employees main page (employees will be sorted based on departments) |
|  | Click on an employee | |  |
|  |  | | Opens a modal to add course-related info |
|  | Click Add course to employee | |  |
|  |  | | Saves the data |
| **Post Condition:** | | System is running | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Alternate Flow (AF2) : Edit , show and delete employee’s courses and course-related info** | | | |
|  | | | |
| **Line** | **System Actor Action** | | **System Response** |
|  | Click the appropriate button | |  |
|  |  | | Opens modals for editing or deleting or showing employee’s courses and course-related info |
| **Post Condition:** | | System is running | |

|  |
| --- |
| **Business Rules:** |
| - |
| **Non Functional Requirements:** |
| - |

|  |
| --- |
| **Data Requirements:** |
| - |

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| --- |
| **Activity Diagram:** |
|  |

|  |
| --- |
| **Prototype Screen: <in case there is any constrains from client>** |
|  |

|  |  |  |
| --- | --- | --- |
| **Screen Entry Exception Table <optinal>** | | |
| **Field** | **Constraint** | **Response** |
|  |  |  |
|  |  |  |

### Use Case #2

**Use case description:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Name** |  |  |  |
| Add courses |  |  |  |
| **Version** | **Description** | **Changed By** | **Date** |
| 1.0 | First draft | XX |  |

|  |  |
| --- | --- |
| **Brief Description:** | The Admin will add courses with their information |
| **Business Trigger:** | The need of giving the employees new courses |
| **Preconditions:** | The user will be able to add new courses to the system |

|  |  |  |  |
| --- | --- | --- | --- |
| **Basic Flow:** | | | |
| **Assumptions: user name and password added to the data base before** | | | |
| **Line** | **System Actor Action** | | **System Response** |
| 1 | Click add new course button | |  |
| 2 |  | | Opens a new page with inputs to add the new course information |
| 3 | Inputs the course information and submit | |  |
| 4 |  | | Saves the course data |
| **Post Condition:** | | System is running | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Alternate Flow (AF2) :** Edit , delete and show information about courses | | | |
|  | | | |
| **Line** | **System Actor Action** | | **System Response** |
|  | Click the appropriate button | |  |
|  |  | | Opens modals for editing or deleting or showing courses |
|  | | | |
| **Post Condition:** | | System is running | |

|  |
| --- |
| **Business Rules:** |
| - |
| **Non Functional Requirements:** |
| - |

|  |
| --- |
| **Data Requirements:** |
| - |

|  |
| --- |
| **Activity Diagram:** |
|  |

|  |
| --- |
| **Prototype Screen: <in case there is any constrains from client>** |
|  |

|  |  |  |
| --- | --- | --- |
| **Screen Entry Exception Table <optinal>** | | |
| **Field** | **Constraint** | **Response** |
|  |  |  |
|  |  |  |

### Use Case #3

**Use case description:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Name** |  |  |  |
| Show passports |  |  |  |
| **Version** | **Description** | **Changed By** | **Date** |
| 1.0 | First draft | XX |  |

|  |  |
| --- | --- |
| **Brief Description:** | The Admin will view all employees’ passports |
| **Business Trigger:** | The need of giving the employees new courses abroad. |
| **Preconditions:** | The user will be able to view employees’ passports |

|  |  |  |  |
| --- | --- | --- | --- |
| **Basic Flow:** | | | |
| **Assumptions: user name and password added to the data base before** | | | |
| **Line** | **System Actor Action** | | **System Response** |
| 1 | Click view employees’ passport button | |  |
| 2 |  | | Opens a new page with employees’ passports information |
| 3 | Click buttons to add, update and show employees’ passports | |  |
| 4 |  | | Saves the passports information |
| **Post Condition:** | | System is running | |

|  |
| --- |
| **Business Rules:** |
| - |
| **Non Functional Requirements:** |
| - |

|  |
| --- |
| **Data Requirements:** |
| - |

|  |
| --- |
| **Activity Diagram:** |
|  |

|  |
| --- |
| **Prototype Screen: <in case there is any constrains from client>** |
|  |

|  |  |  |
| --- | --- | --- |
| **Screen Entry Exception Table <optinal>** | | |
| **Field** | **Constraint** | **Response** |
|  |  |  |
|  |  |  |

## Activities Diagrams

